APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100580023-9

Golova, O. P., Epstein, Ya. E., and Dobrynina, L. I. THE EFFECT OF INORGANIC COMPONENTS ON THE CLEAVAGE OF C-C-BONDS DURING THERMAL DEGRADATION OF CELLULOSE (Vliyanie Neorganicheskikh Komponentov na Raspyf C-C-Svyazei pri Termicheskom Raspade Cellulozy). Sep 63 [7p] 7refs FPRB Trans. no. 160.
Order from NRCC NRCC-C-4553

Trans. of Vysokomolekulyarnye Soedineniya (USSR) 1961, v. 3, no. 4 [p. 536-540]. (Abstract available)

DESCRIPTORS: *Cellulose, *Pyrolysis, Chemical bonds, Inorganic substances, *Salts, Chlorides, Sulfates, Acetates.

Inorganic salts exert a selective effect on the chemical transformation of cellulose at high temperatures. Chlorides of the monovalent metals have the highest (Chemistry, TT, v. II, no. 3) (over)

TT-64-12033

I. Golova, O. P.
II. Epstein, Ya. E.
III. Dobrynina, L. I.
IV. FPRB Trans-160
V. NRCC-C-4553
VI. Forest Products Research Branch (Canada)
VII. Bureau of Translations (Canada)

Office of Technical Services

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100580023-9

APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100580023-9

Golova, O. P., Krylova, R. G., and Nikolayeva, I. I. MECHANISM OF THE THERMAL DECOMPOSITION OF CELLULOSE IN A VACUUM. I. COMPARATIVE STUDY OF THE THERMAL DECOMPOSITION OF COTTON CELLULOSE AND CELLULOSE HYDRATE. (O Mekhanisme Termicheskogo Raspada Tsellyulozy v Vakuume. I. Sravnitel'noye Izucheniye Termicheskogo Raspada Klopkovoy i Gidratsellyulozy). Feb 61 [14]p. 18 refs. RTS 1650.
Order from LC or SLA ml$2.40, ph$3.30 61-15921

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR) 1959, v. 1, no. 9, p. 1295-1304.

A study was made of the products of thermal decomposition, obtained at different stages of thermal action on cotton cellulose in a vacuum. Two stages were defined in the thermal decomposition of cotton cellulose; the first stage covers the decomposition of the first 10 - 20%, and the second stage includes that of the following 70 to 80% of the specimen. A study was
(Chemistry--Organic, TT, v. 5, no. 8) (over)

61-15921

I. Cellulose--Decomposition
I. Golova, O. P.
II. Krylova, R. G.
III. Nikolayeva, I. I.
IV. Title: Comparative...
V. RTS-1650
VI. Department of Scientific and Industrial Research (Gt. Brit.)

Office of Technical Services

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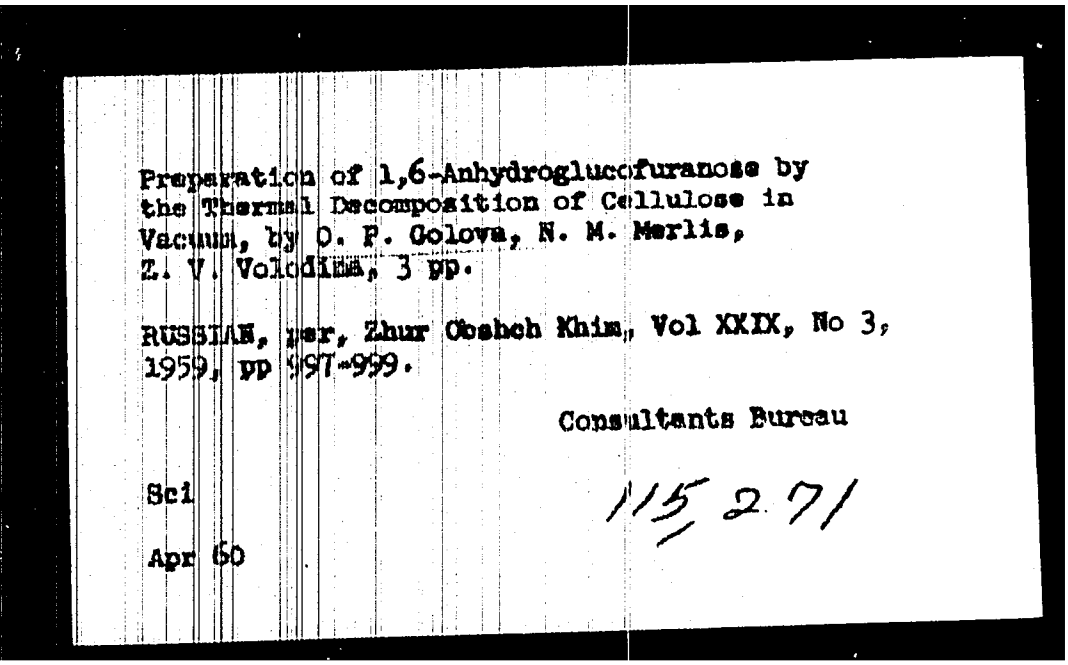

Preparation of 1,6-Anhydroglucofuranose by the Thermal Decomposition of Cellulose in Vacuum, by O. P. Golova, N. M. Merlis, Z. V. Volodina, 3 pp.

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Uber das Molekulargewicht der Zellulose. 1953, by
O. P. Golova, W. I. Ivanov

Translated from the Russian edition, 1949

DSIR 547.458.8
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New Data on the Bonds of Polysaccharide (Cellulose) Structure and the Course of the Chemical Reactions Occurring During Thermal Decomposition, by O. P. Golova, A. M. Pakhomov, E. A. Andrievskaya, 4 pp.

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Comparative Study of the Oxidation Reactions of Pectic Substances, of Cellulose, and of the Structural Units of These Substances. Communication 3. Comparative Study of the Reactivities of the Structural Units of Cellulose and Pectic Substances in Oxidation Reactions with Sodium Metaperiodate and Hydrogen Peroxide, by O. P. Golova, N. S. Nayat, 6 pp.

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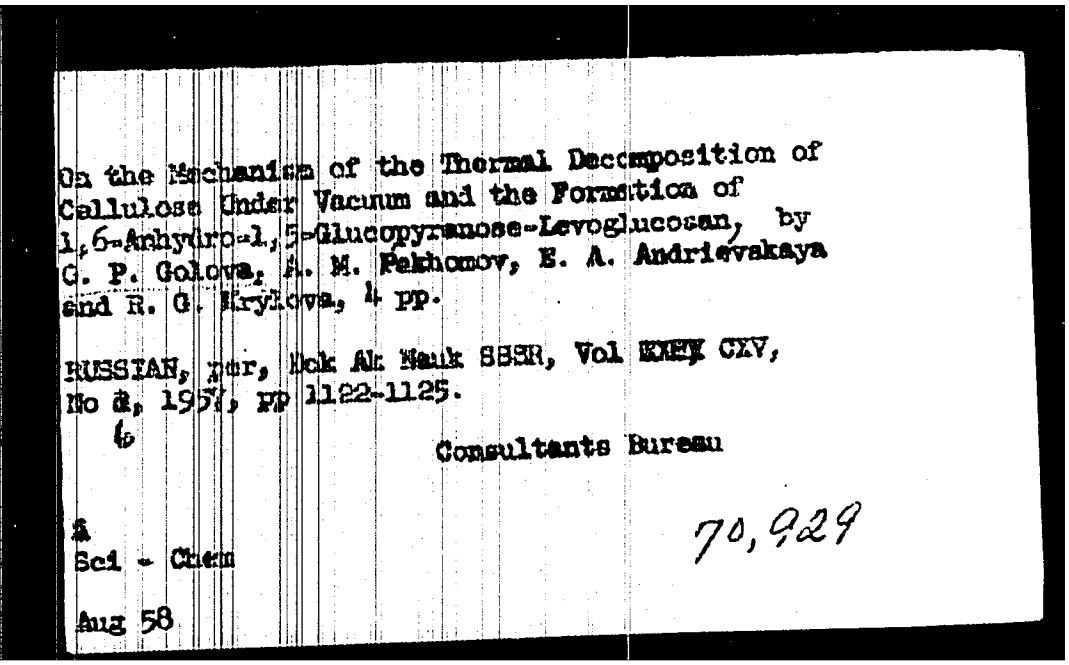

On the Mechanism of the Thermal Decomposition of Cellulose Under Vacuum and the Formation of 1,6-Anhydro-1,5-Glucopyranose-Levoglucosan, by G. P. Golova, A. M. Pekhomov, E. A. Andrievskaya and R. G. Kryukova, 4 pp.

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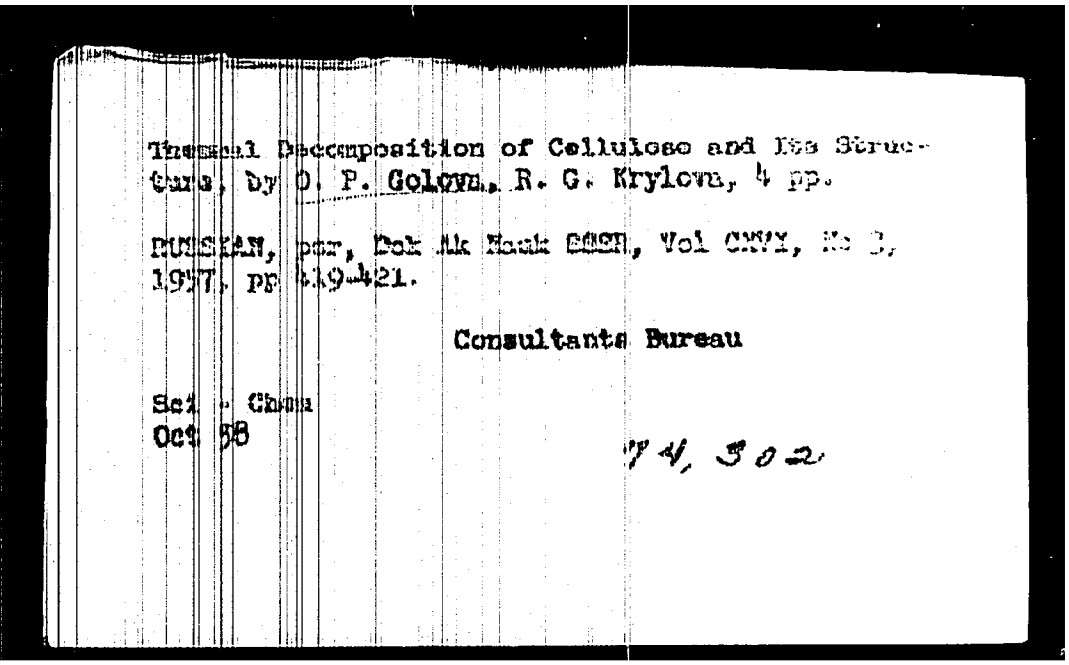

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Use of Anion-Exchange Resins for the Removal of ... Substances Accompanying Levoglucosan in the Product of the Vacuum Thermodegradation of Cellulose, by N. M. Merlis, O. P. Golova, K. N. Saldadze, I. I. Nikolayeva, 4 pp.

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Transformations of Cellulose at Elevated Temperatures. Communication 3. Formation of Levoglucosan from β-D-Glucose, by O. P. Golova, E. A. Andryevskaya, A. M. Pakhomov and N. M. Merlis, 4 pp.

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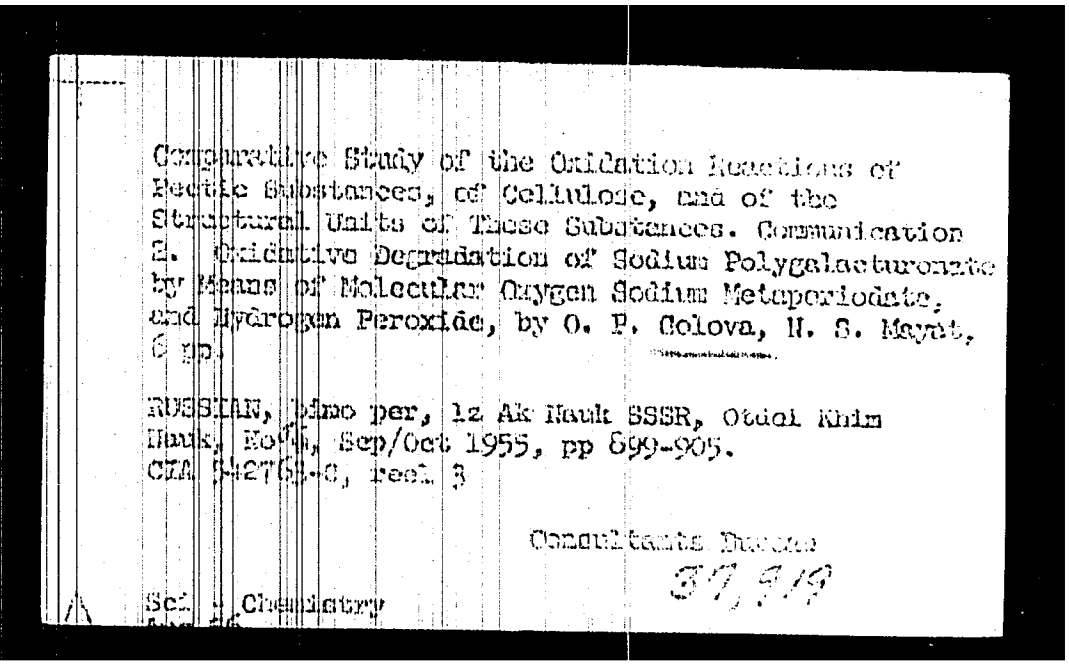

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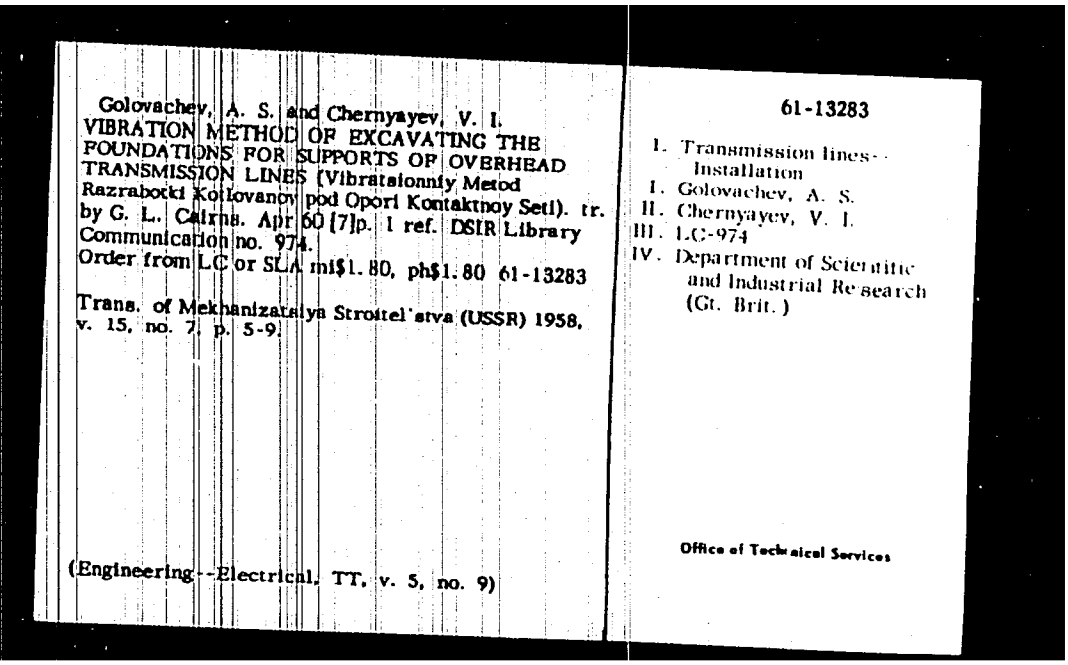

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(Engineering--Electrical, TT, v. 5, no. 9)

61-13283

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II. Chernyayev, V. I.
III. LC-974
IV. Department of Scientific and Industrial Research (Gt. Brit.)

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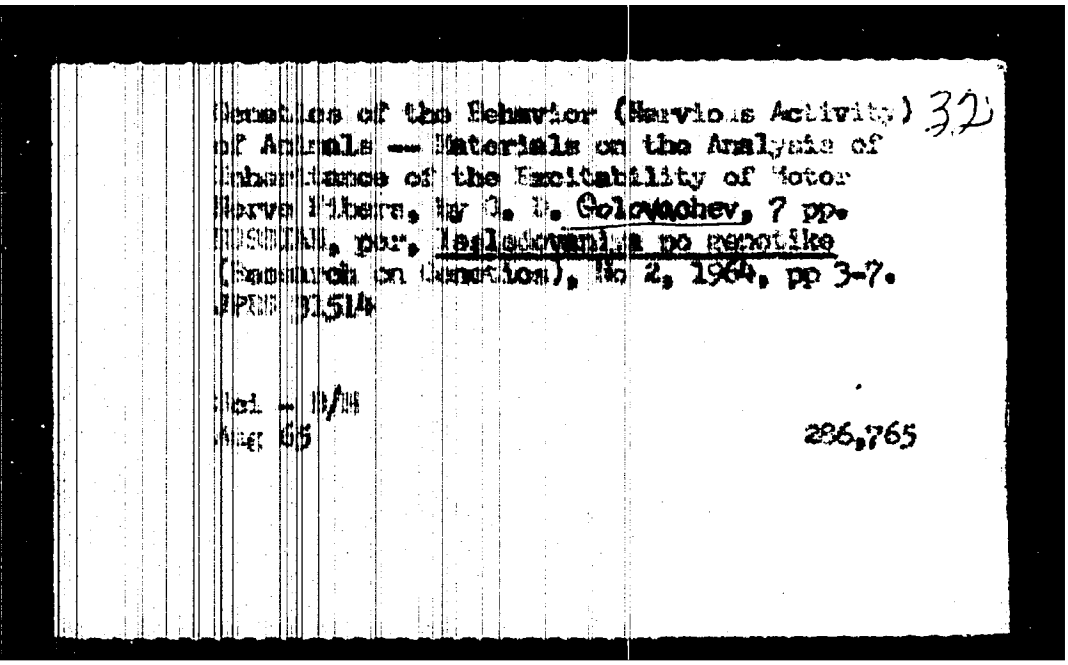

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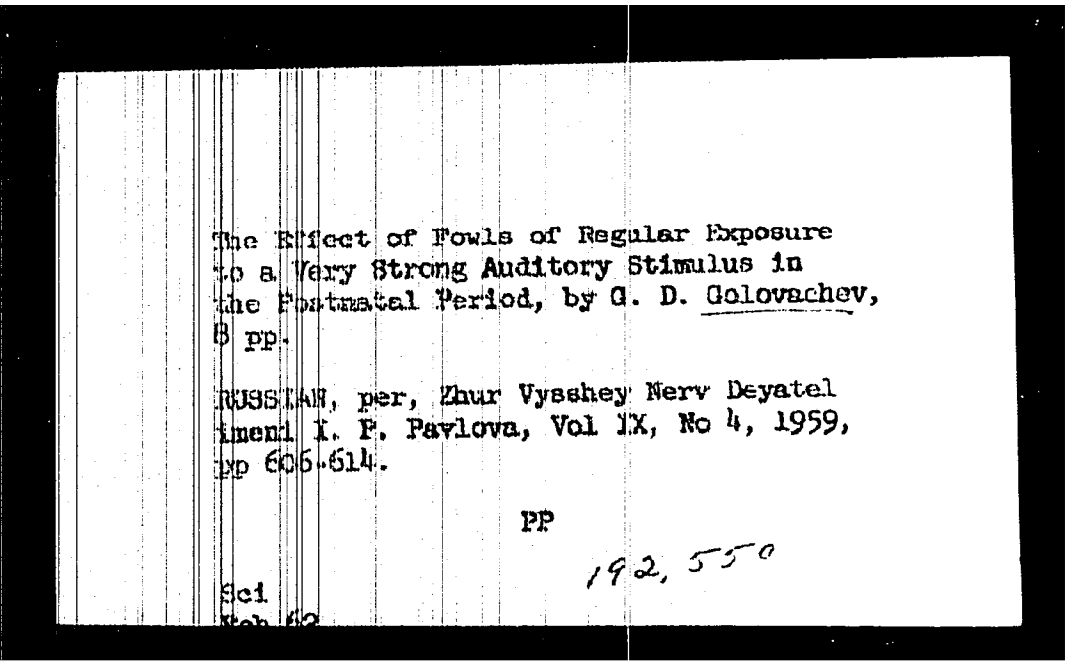

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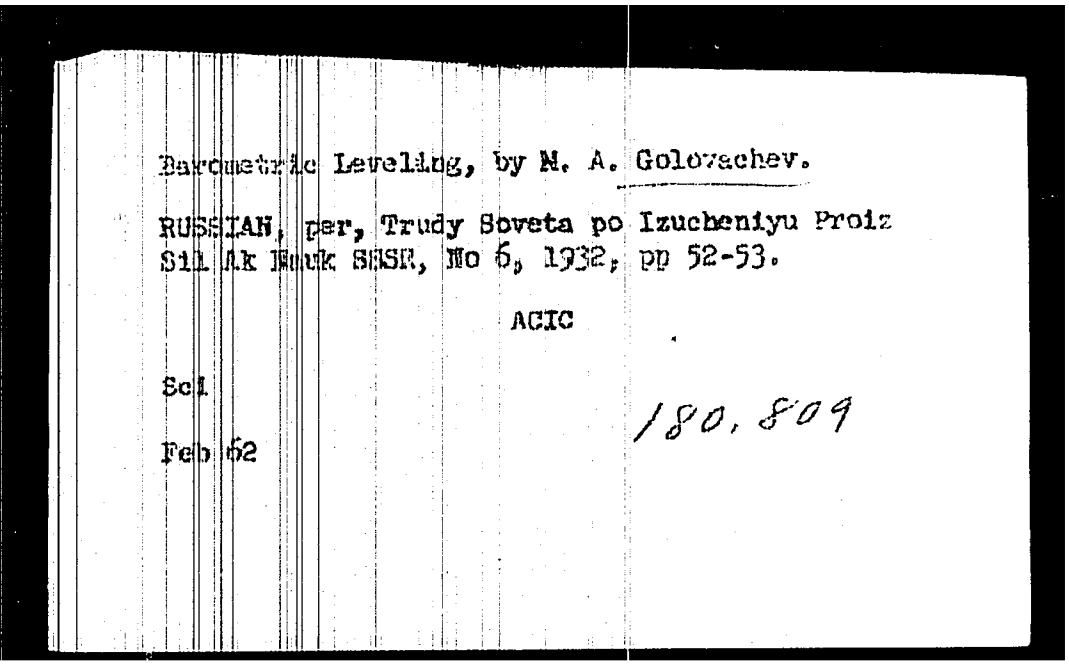

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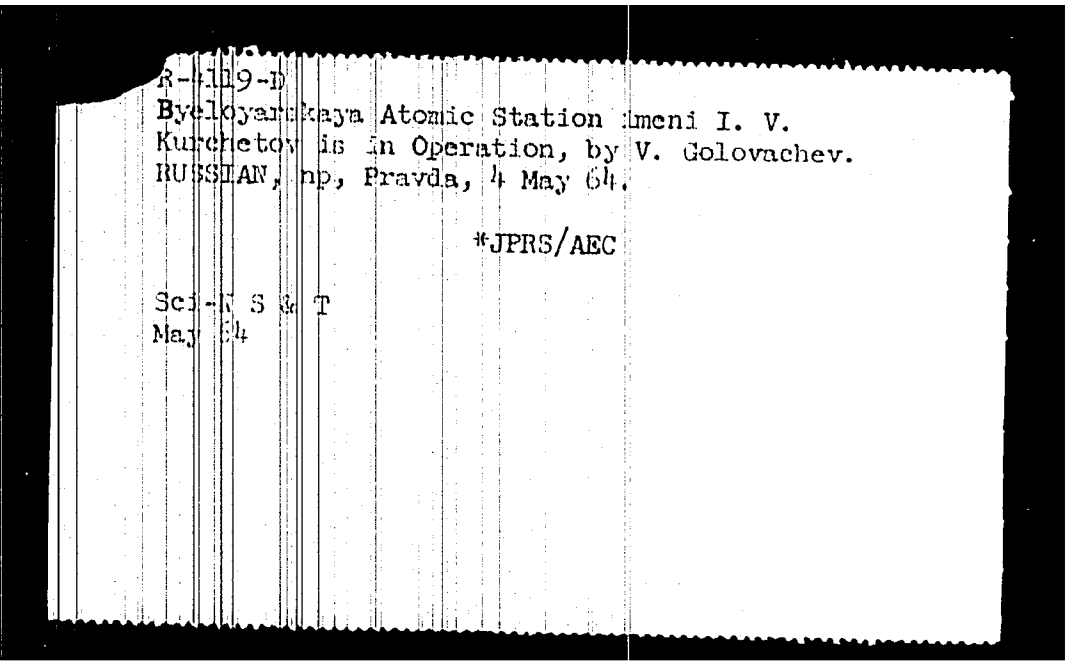

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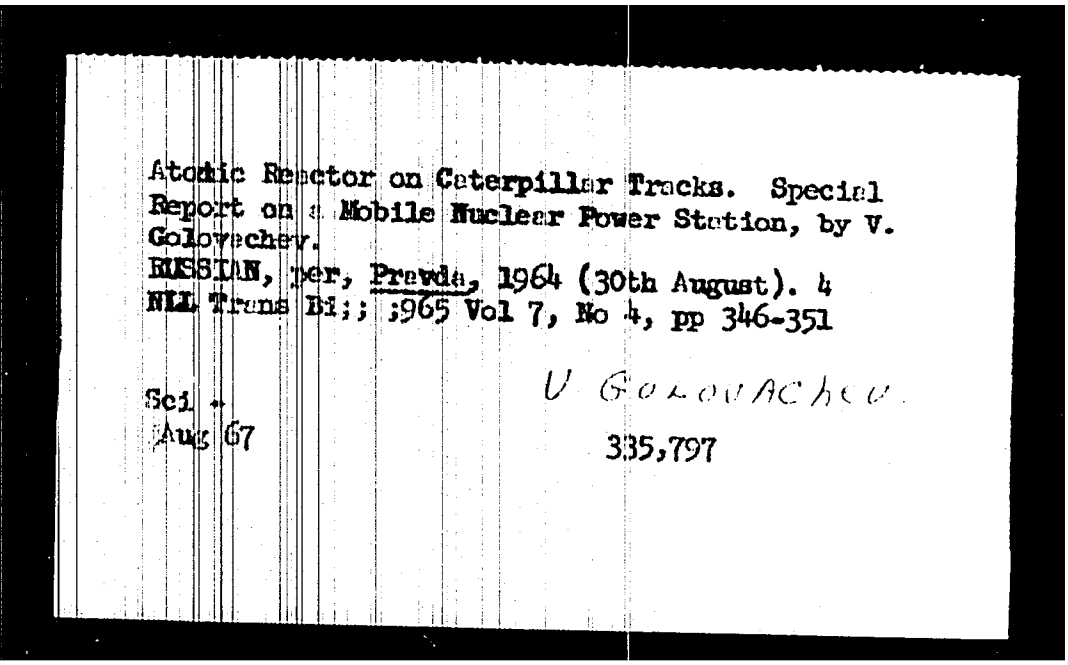

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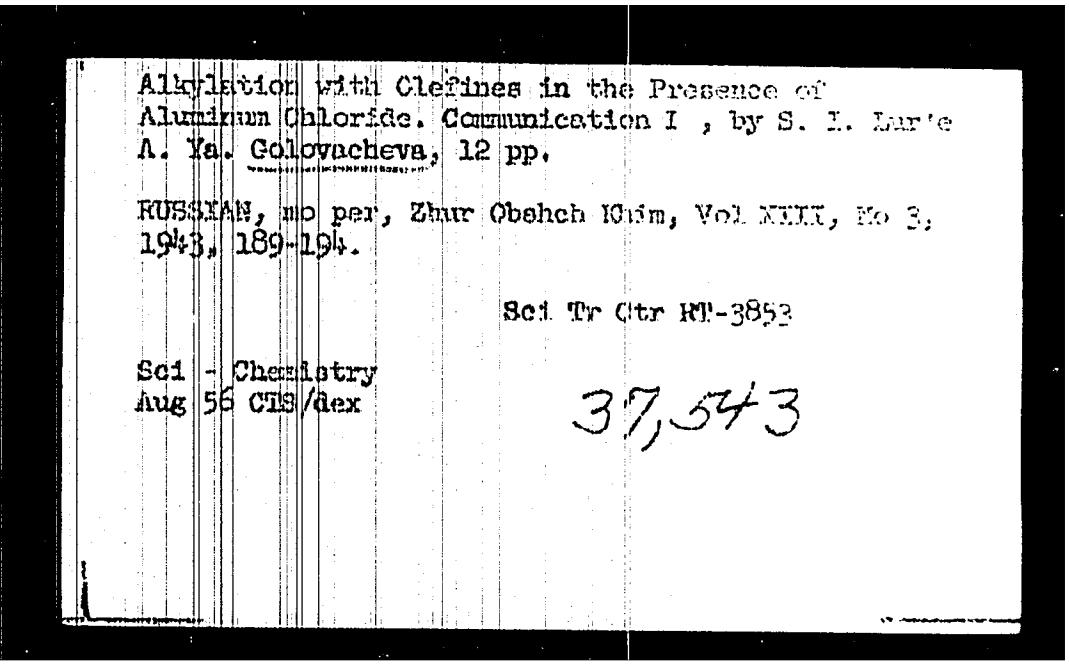

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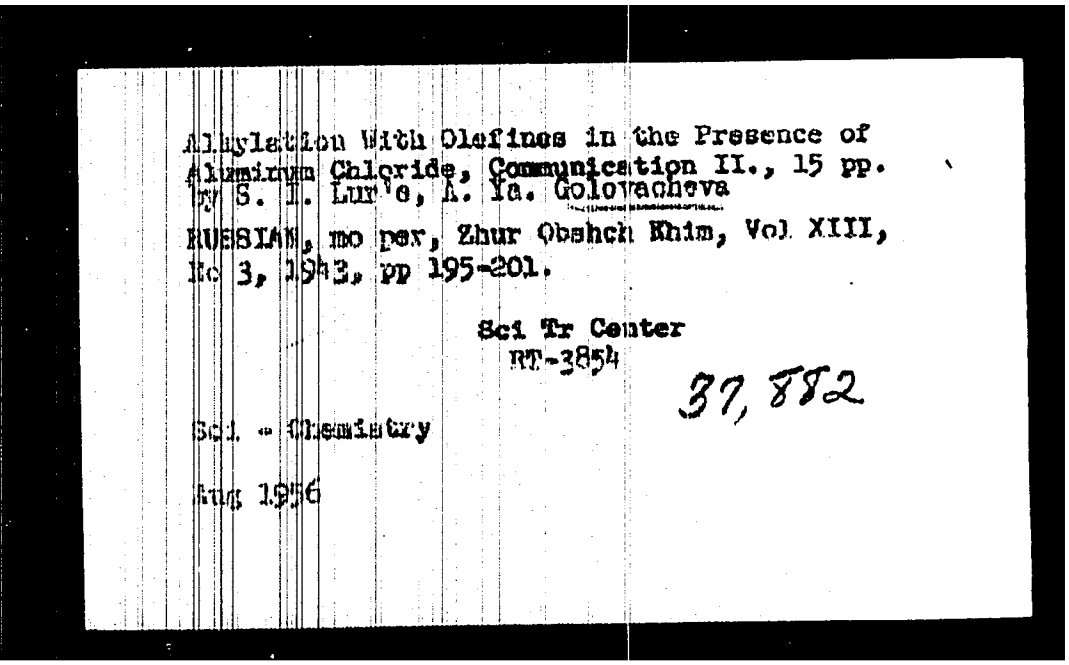

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The Conversion Mechanism of Tertiary Alcohols of the Cyclopropane Series Under the Influence of Mineral and Organic Acids. III. The Interaction of Dimethylcyclopropylcarbinol, Methylethylcyclopylcarbinol and Methylisopropylcyclopropylcarbinol With Sulfuric Acid, by T. A. Favorskaya, N. V. Scherbinskaya, E. S. Golovacheva, 6 pp.

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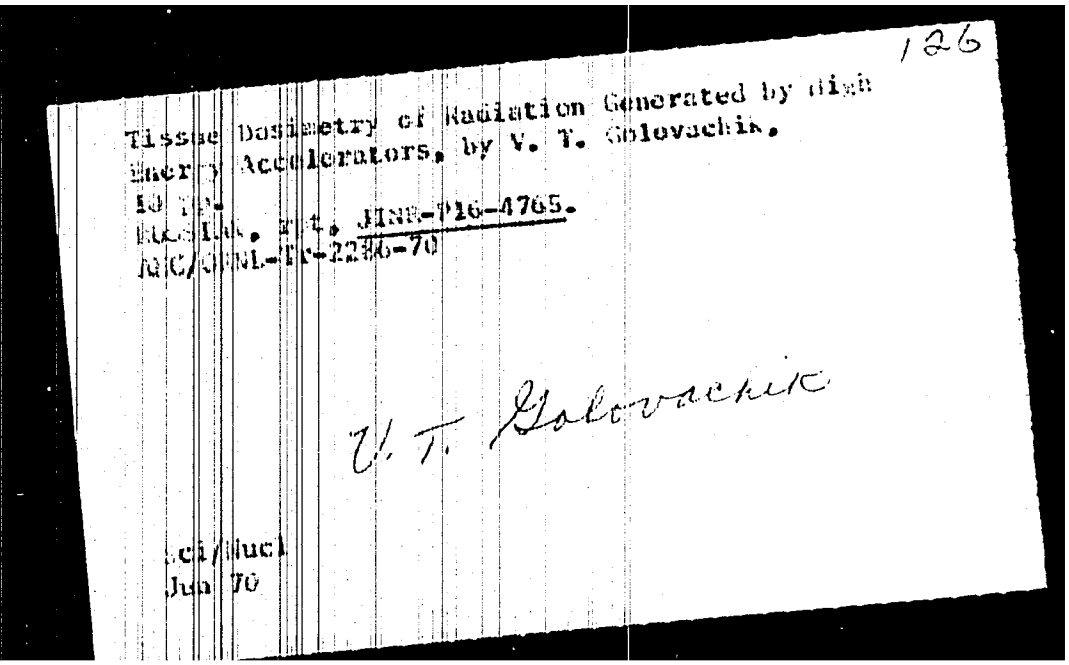

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V. T. Golovachik

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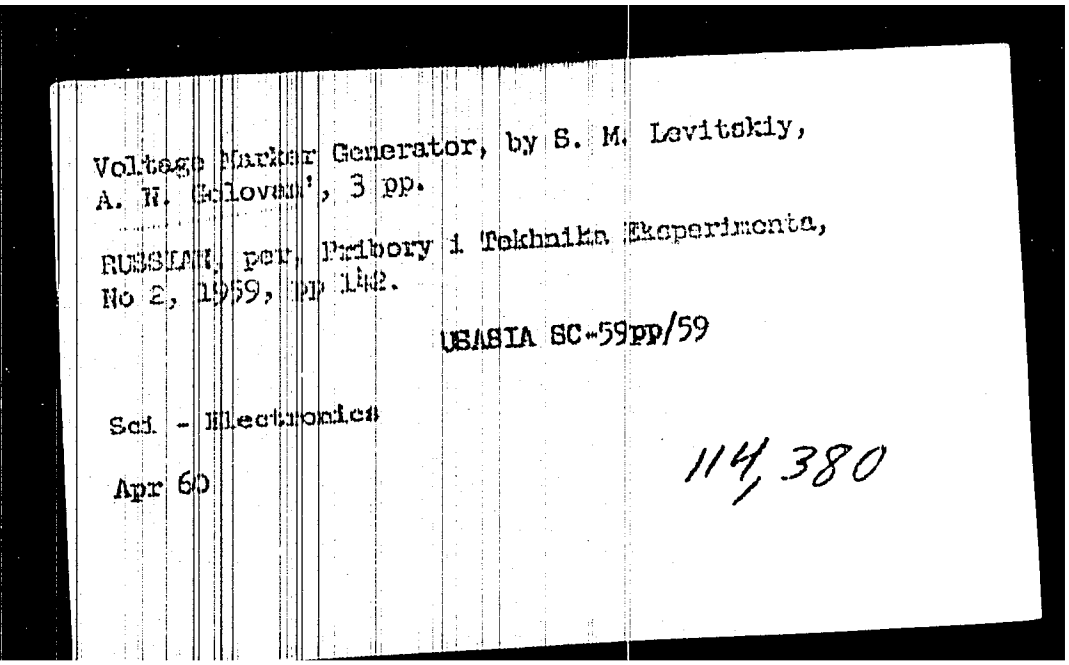

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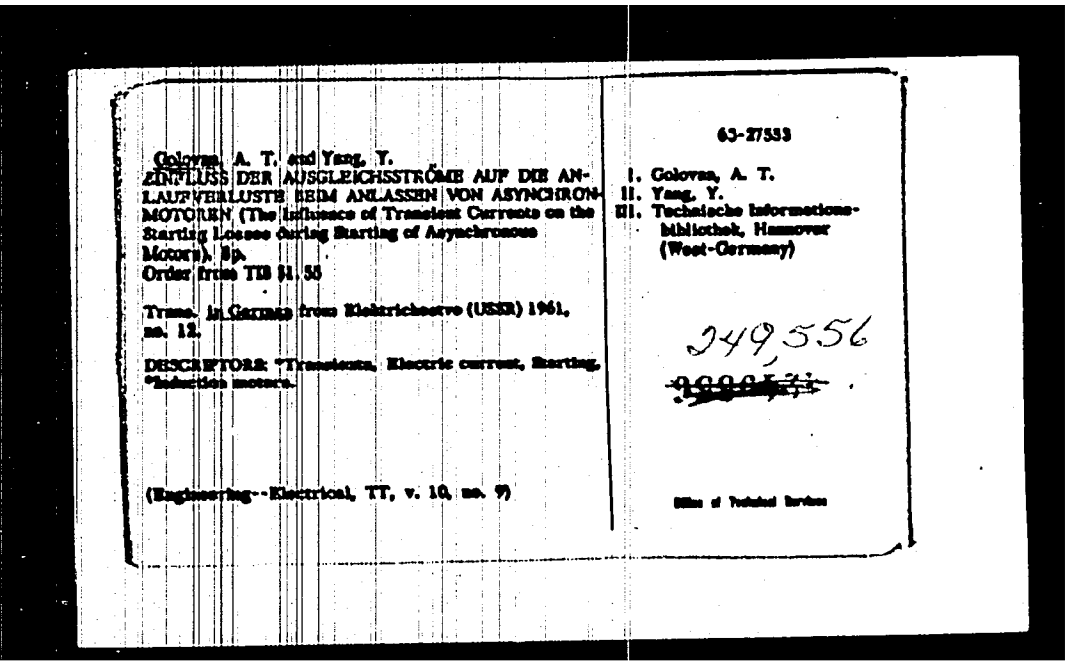

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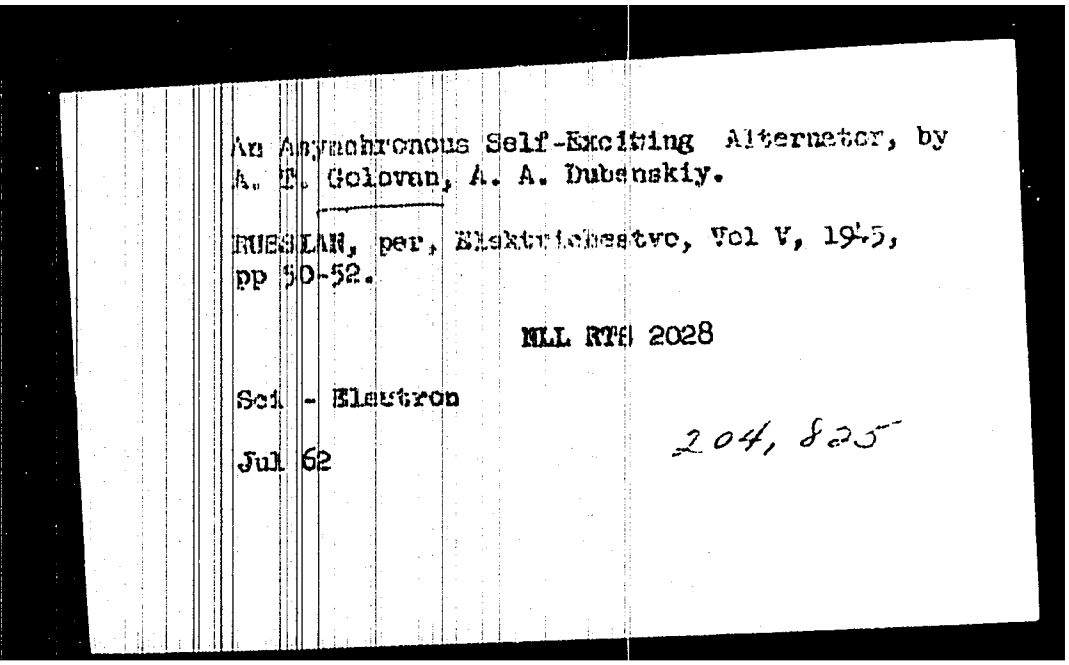

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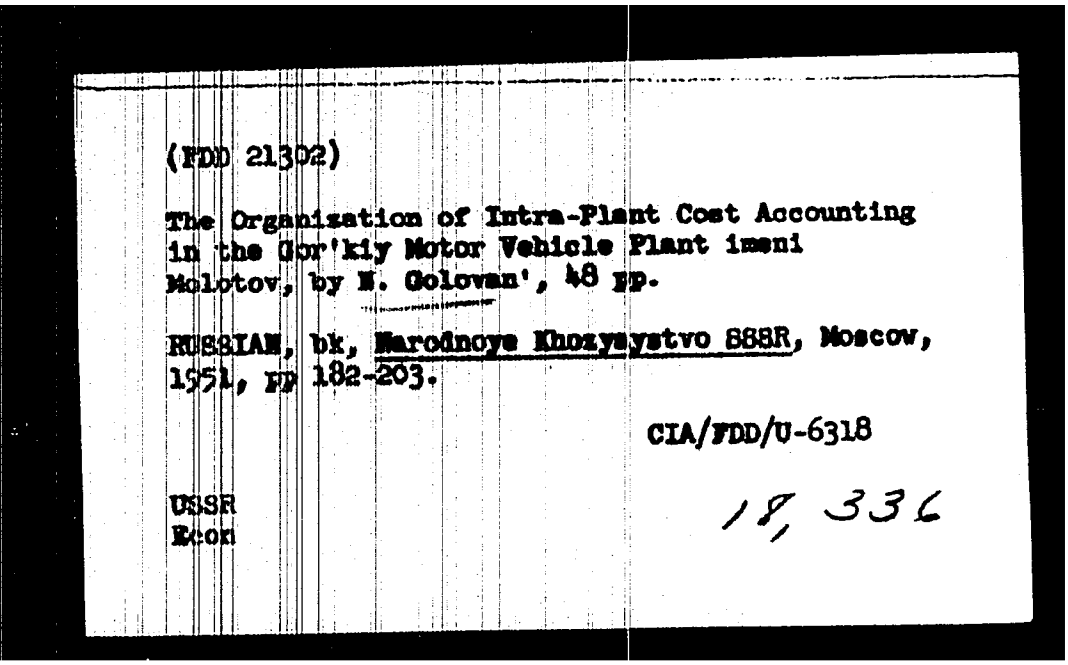

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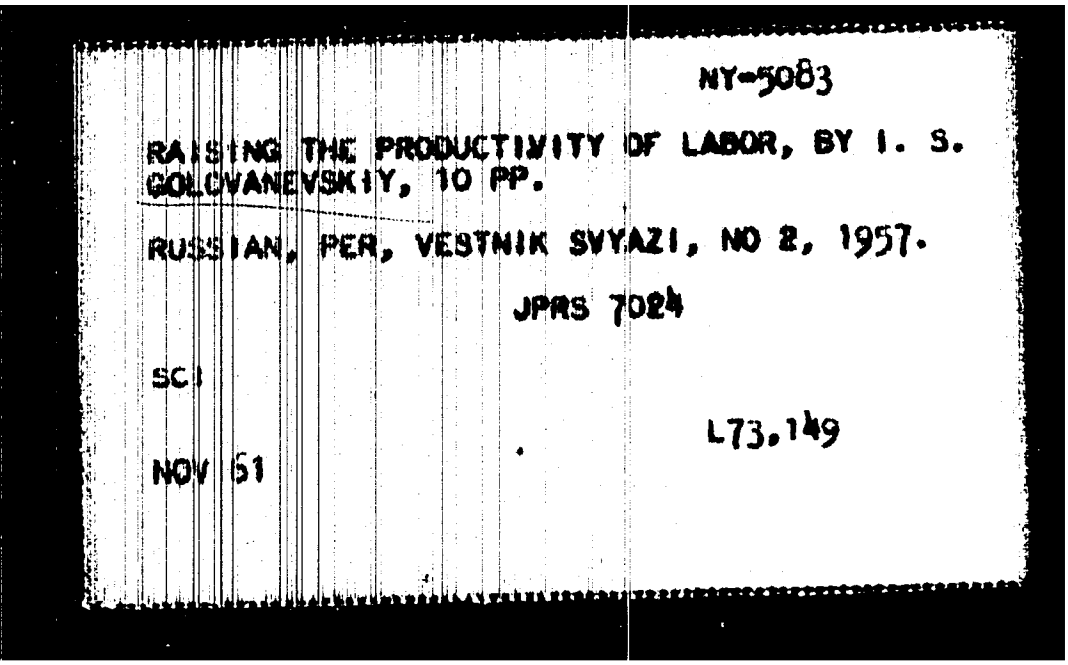

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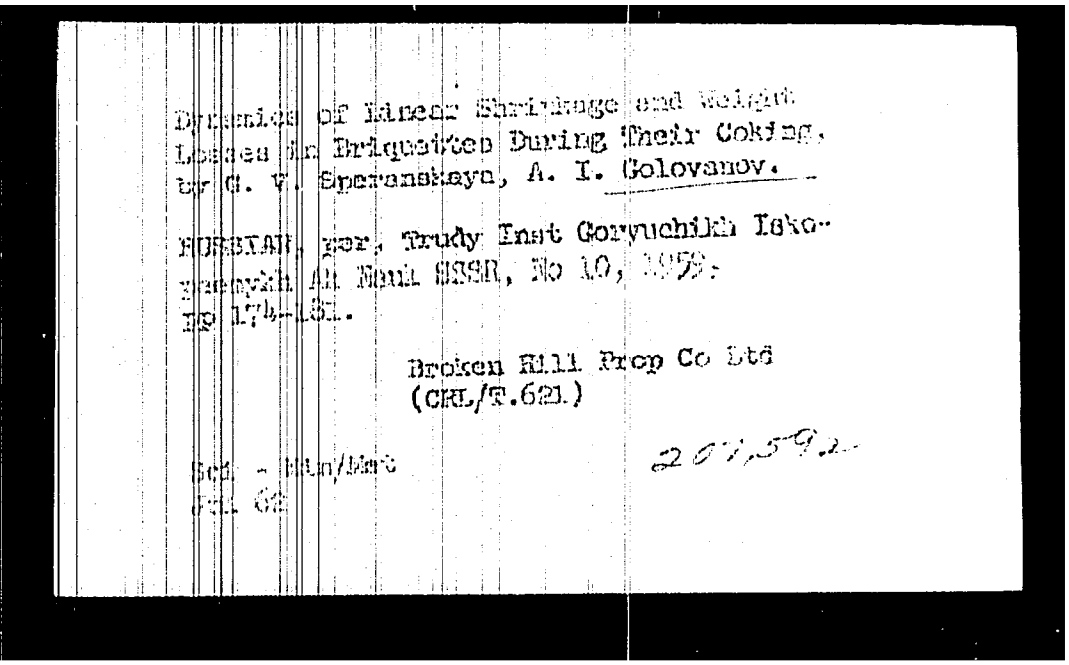

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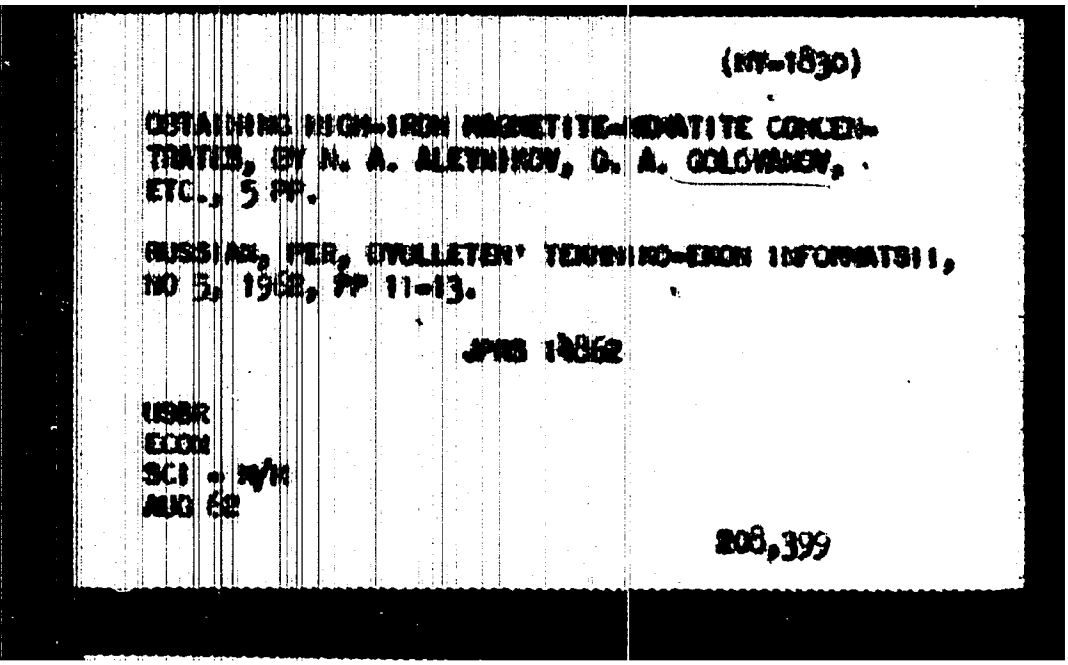

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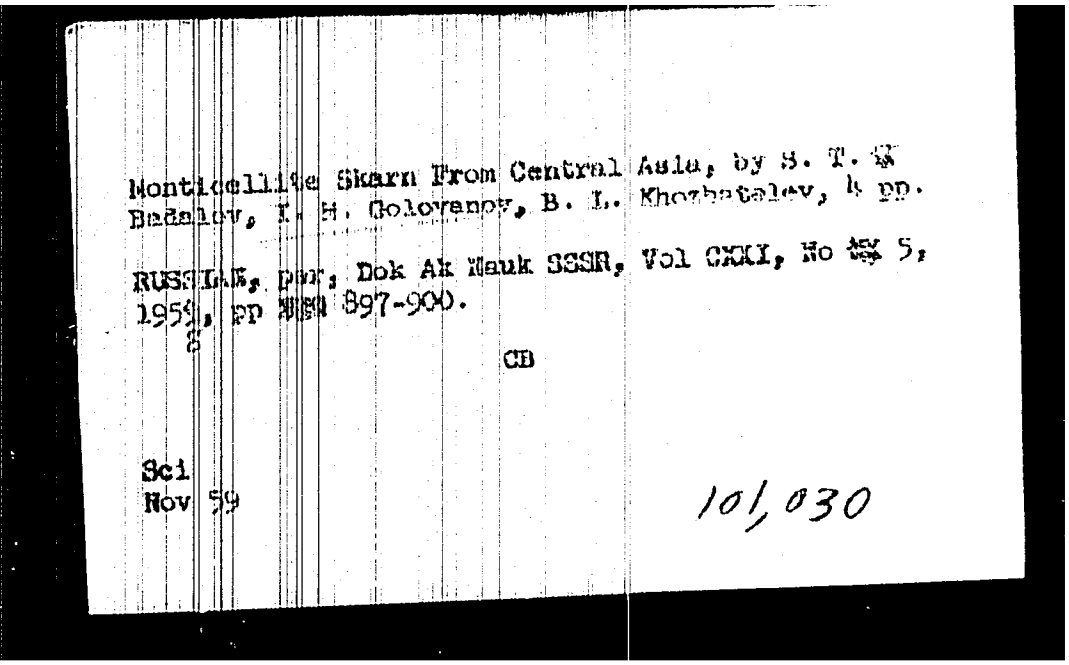

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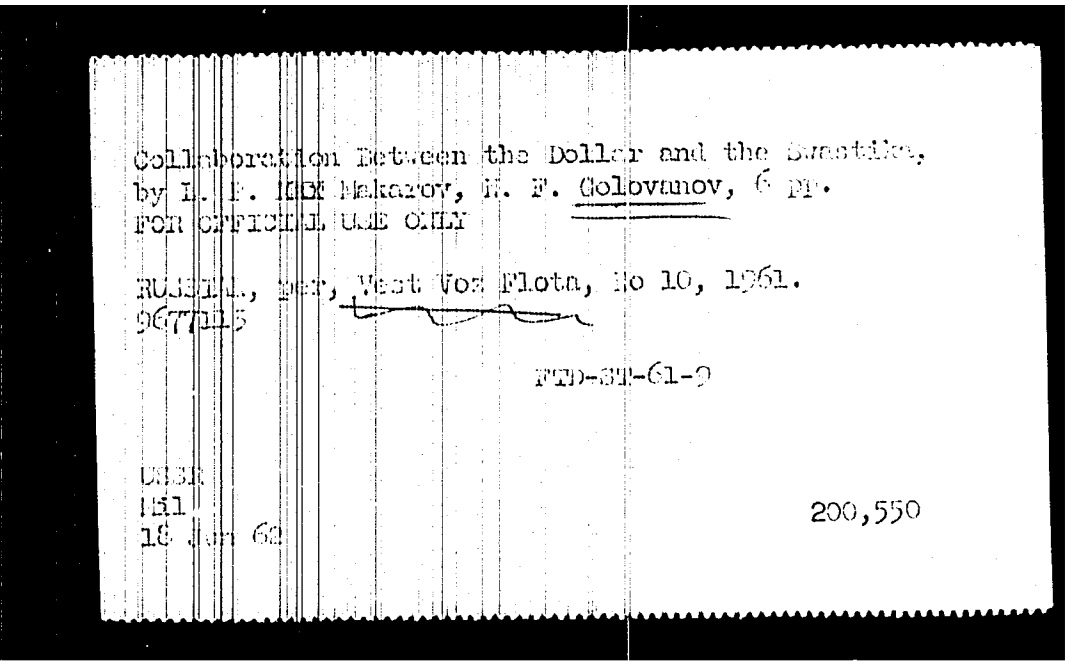

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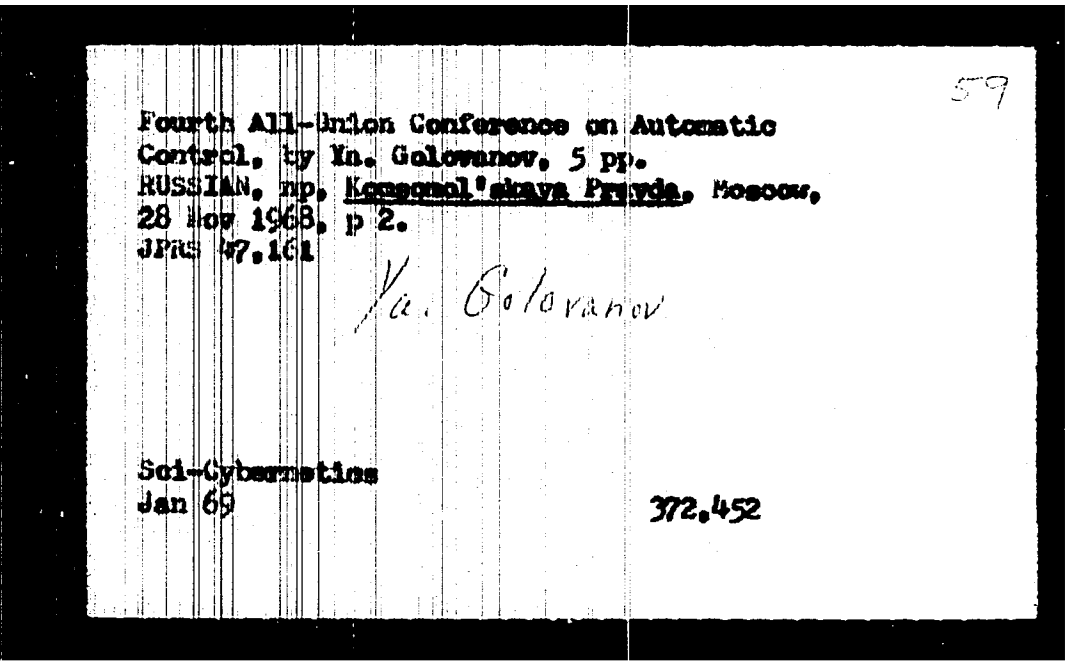

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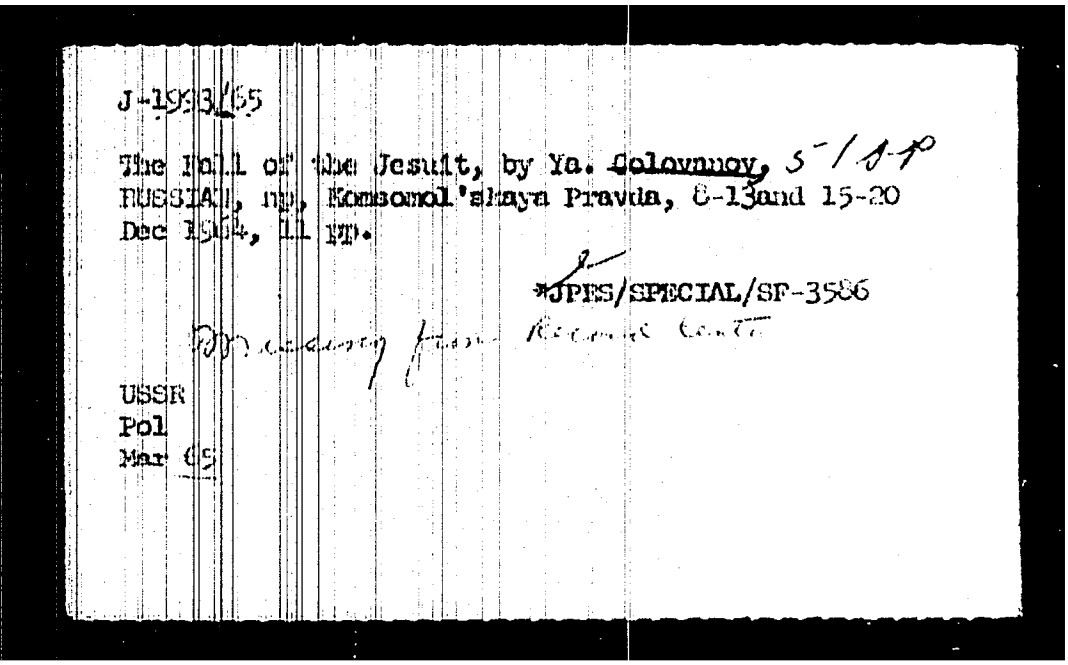

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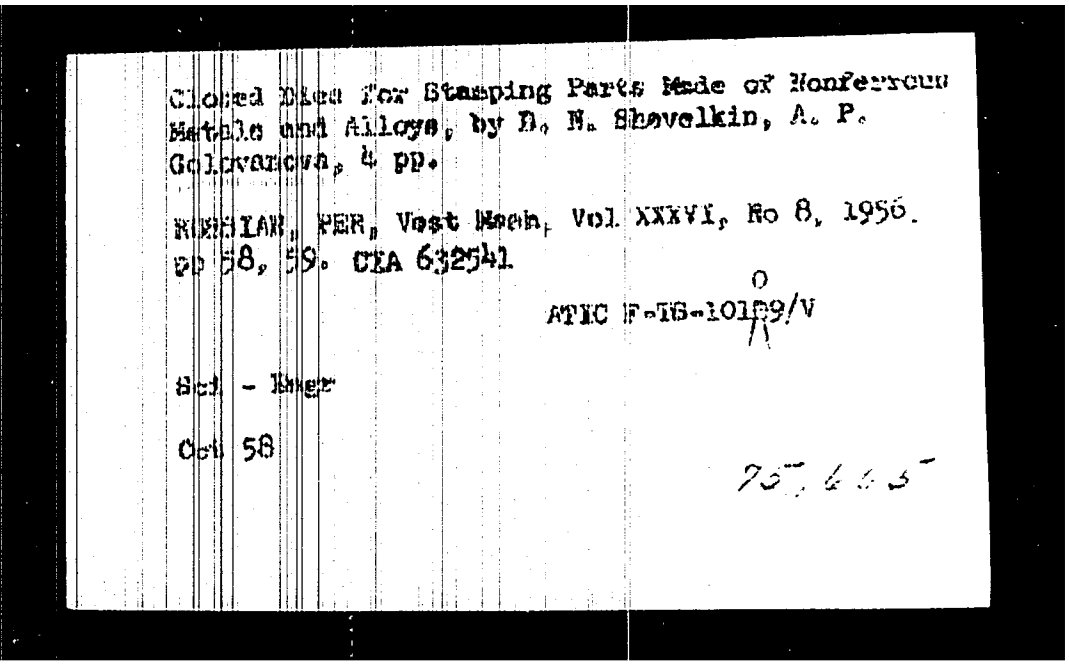

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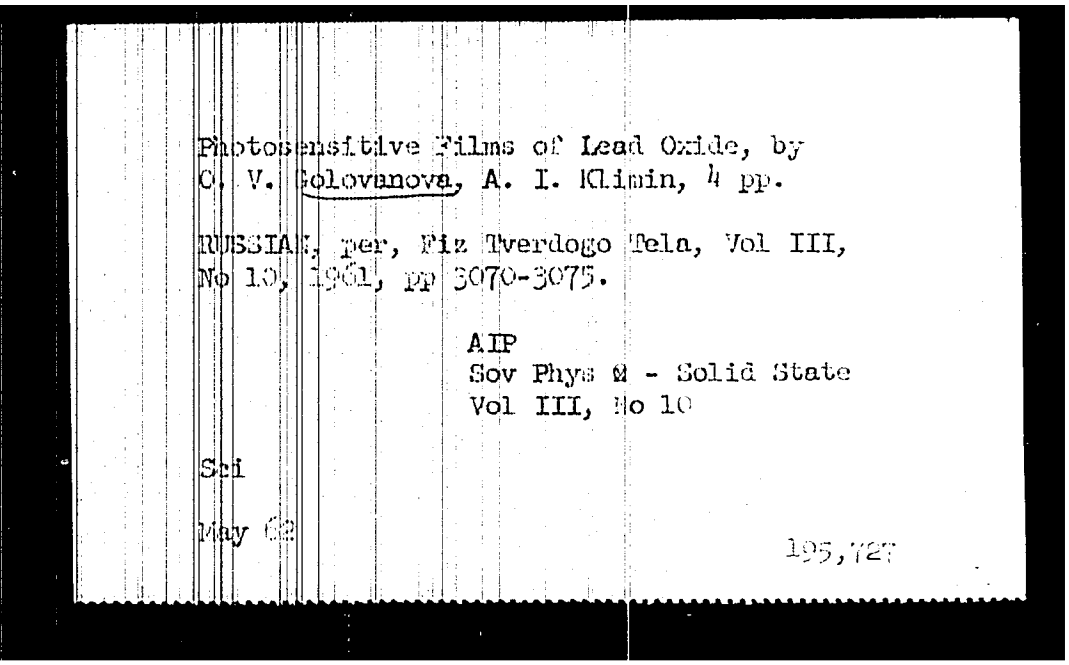

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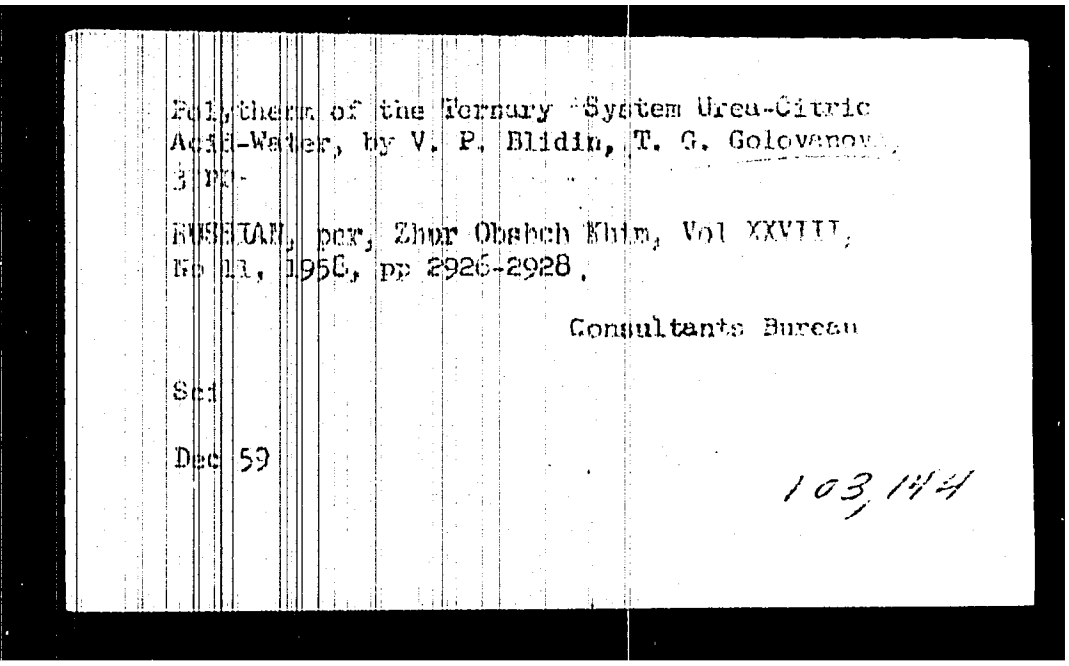

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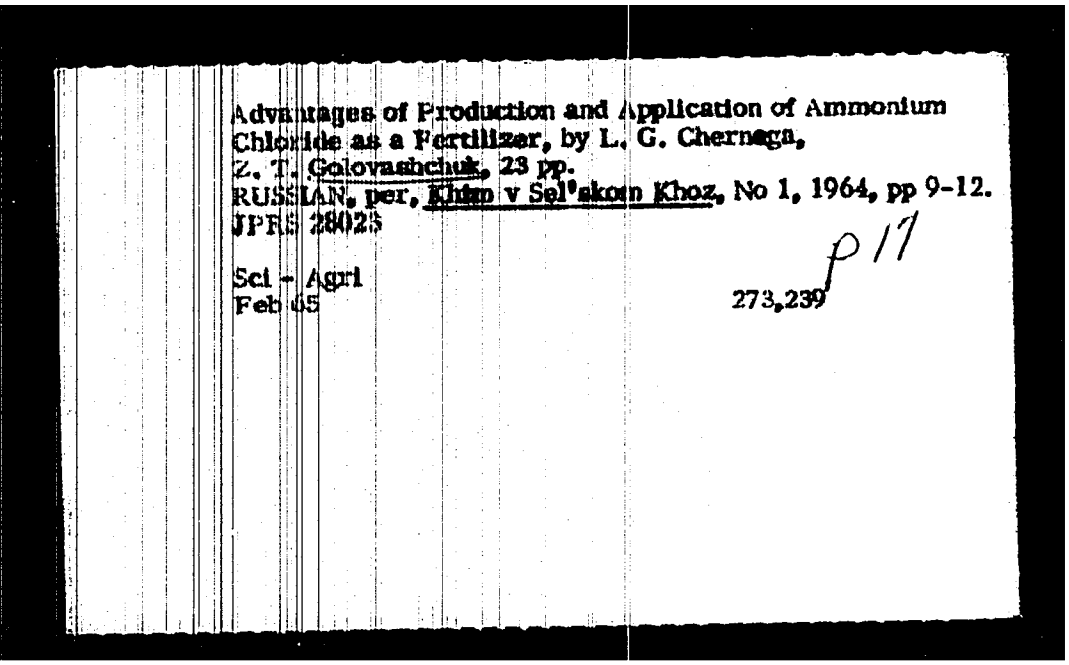

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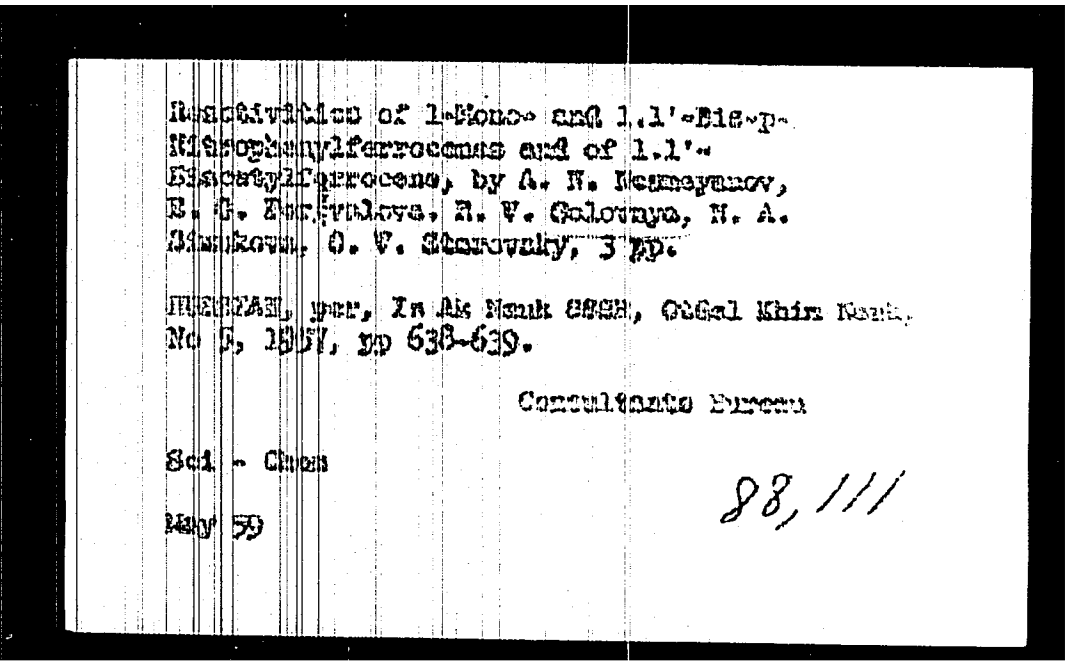

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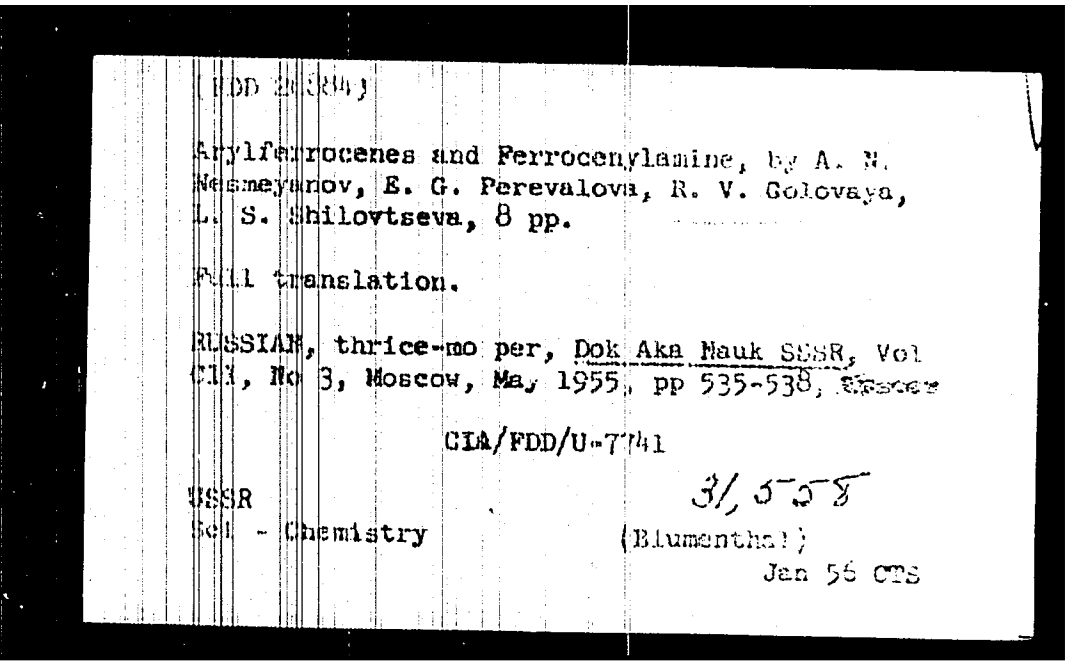

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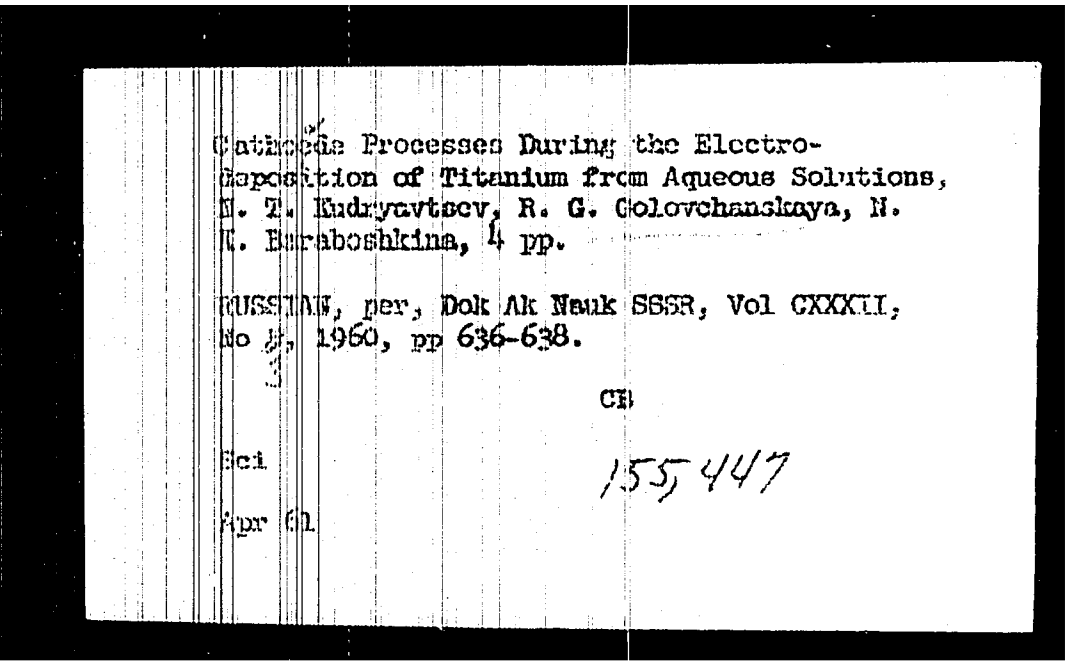

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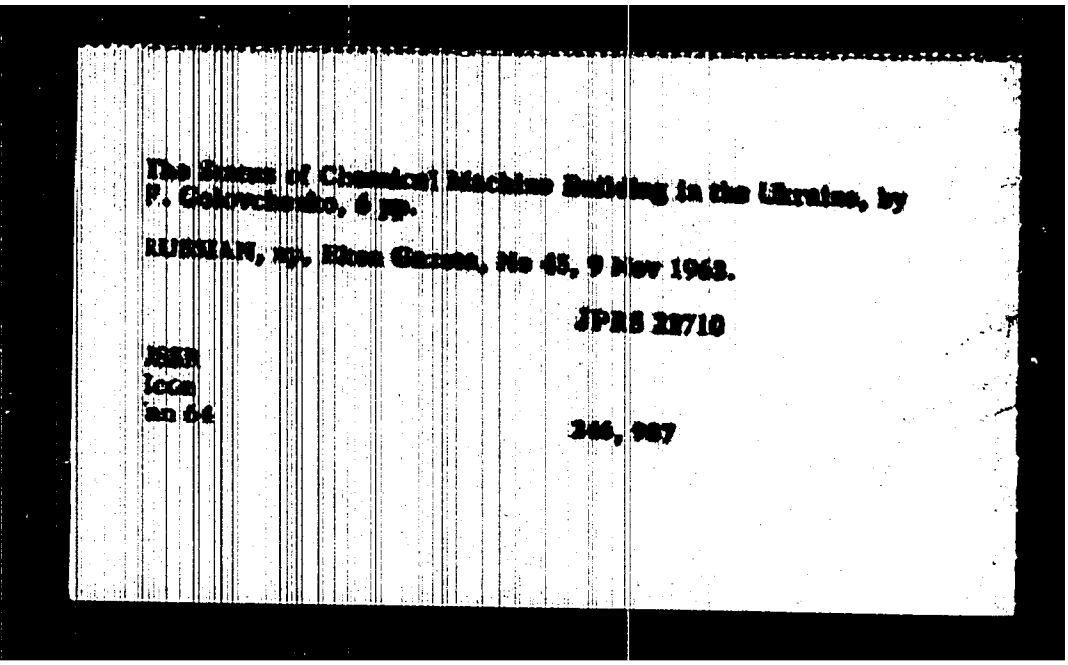

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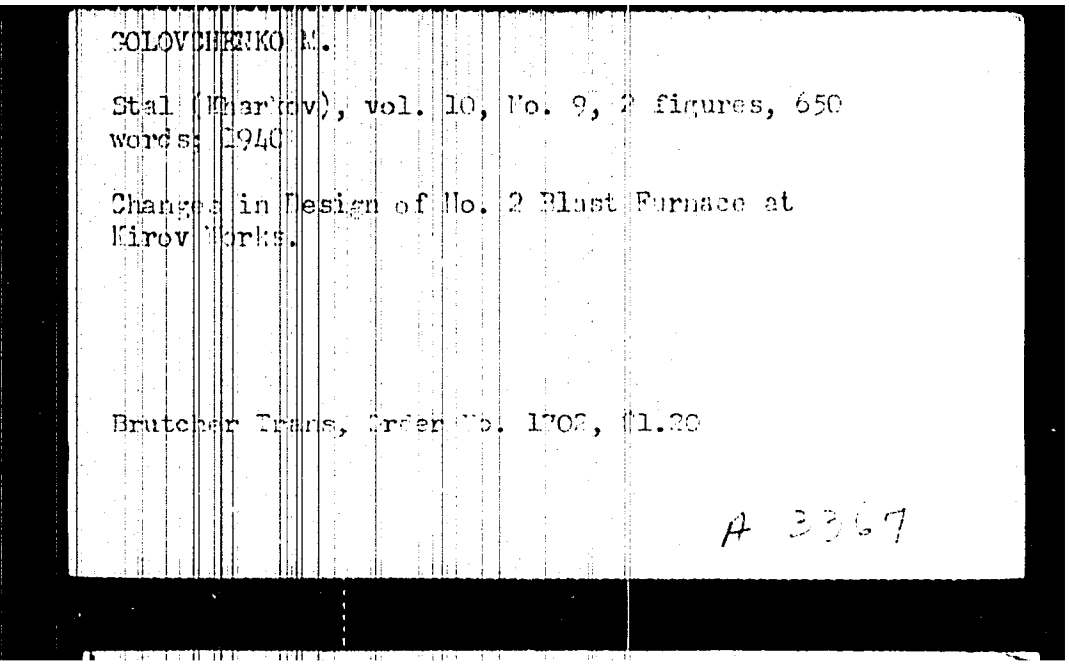

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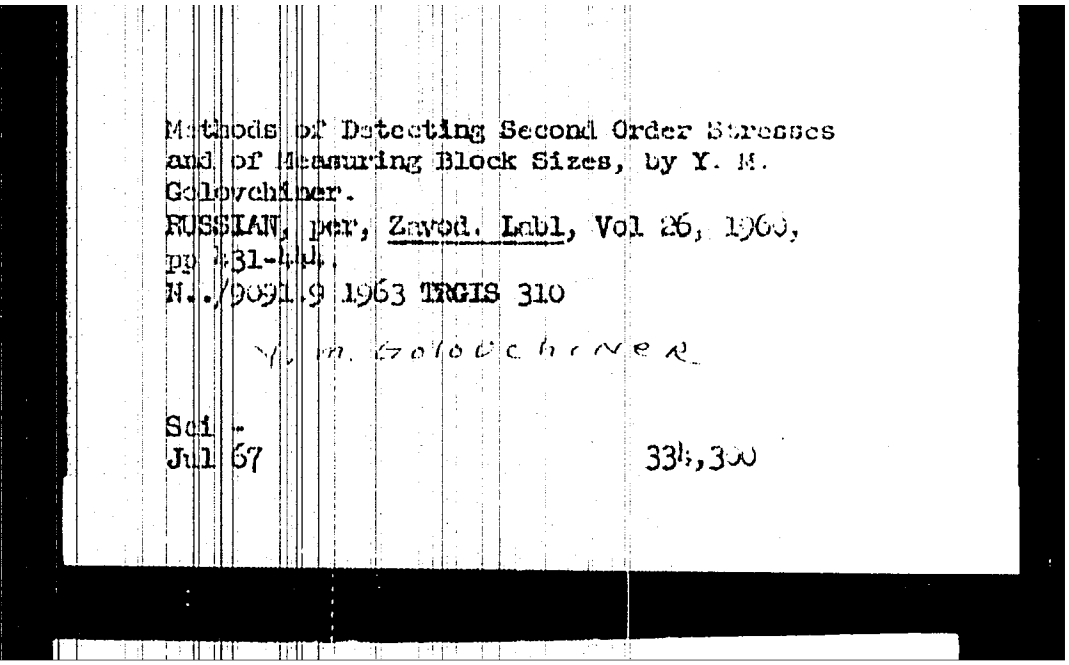

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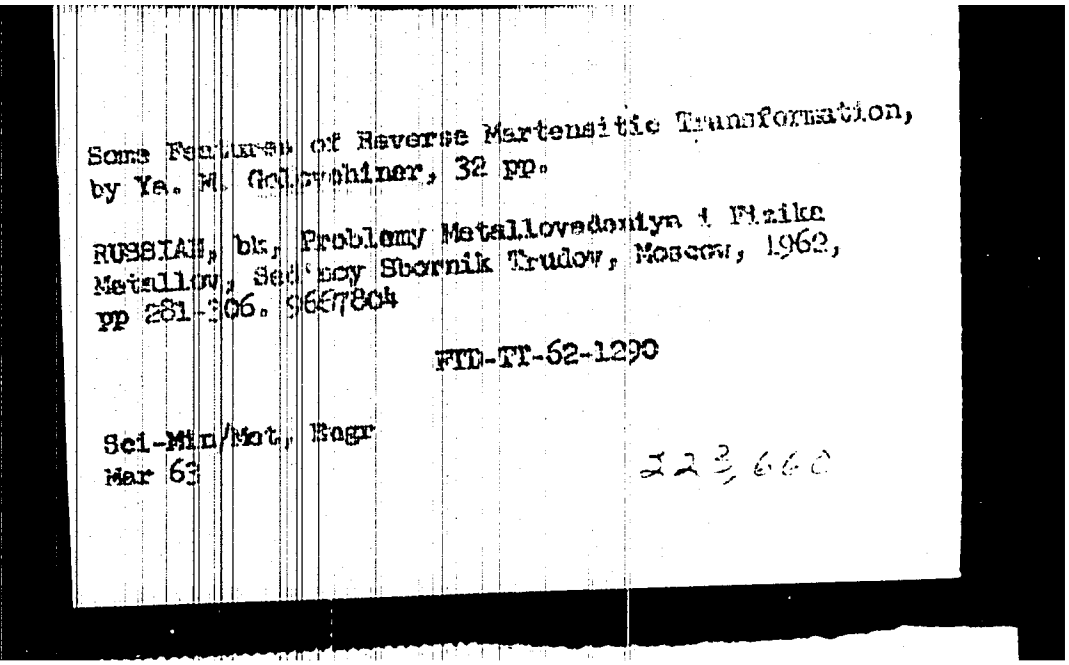

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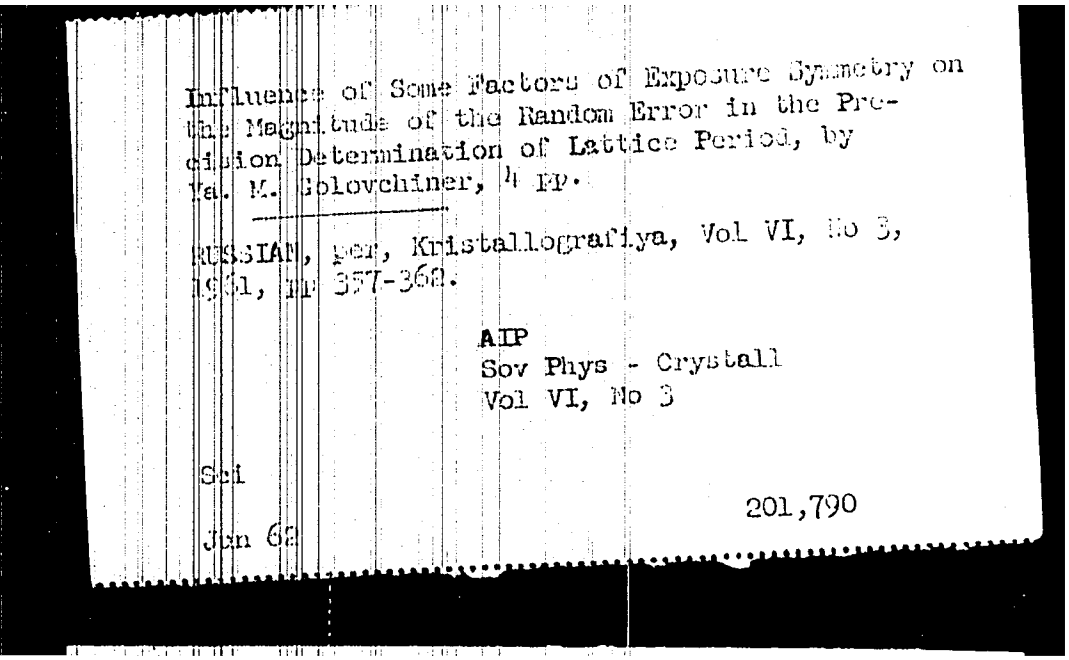

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